

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: 7-Eleven, Inc.
P.O. Box 711
Dallas, TX 75221

Permit Number: NV0023281

Location: 7-Eleven Store #23129
4581 E. Charleston Blvd., Las Vegas, Clark County, NV 89104
Latitude: 36° 09' 33" N, Longitude: 115° 04' 27" W
Township 21S, Range 62E, NE¼ NW¼ Section 5

General: 7-Eleven Store #23129 is located at 4581 E. Charleston Blvd., Las Vegas, Clark County, NV. The facility consists of a convenience store and retail fuel dispensing operation. Beginning in 1998, the groundwater at this location has been monitored for contamination resulting from prior gasoline leakage from the underground fuel storage tanks. Petroleum hydrocarbon contaminants of concern in the shallow groundwater at this site are: benzene, 3,000 µg/L; ethylbenzene, 1,400 µg/L; xylenes (total), 2,400 µg/L; toluene, 4,500 µg/L; methyl tertiary butyl ether (MTBE), 1,500 µg/L; and total petroleum hydrocarbons; 30 mg/L. The facility is installing a groundwater remediation system consisting of air stripping and activated carbon adsorption. The treated groundwater will be discharged to a storm drain inlet located near the intersection of Charleston Blvd. and Arden Rd. Vapor-phase carbon adsorption will be used to treat the extracted soil gases and air stripper exhaust. The Clark County Department of Air Quality Management separately regulates the gaseous emissions from this treatment system. The Division's Bureau of Corrective Actions will regulate the soil and groundwater cleanup activities at this site.

Receiving Water Characteristics: The receiving water for the treated groundwater is the Las Vegas Wash via the storm drain system. The outfall at the wash for the discharge is located near the intersection of Charleston Blvd. and Arlington St. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199.

Depth to groundwater occurrence in the shallow, non-potable aquifer at this site is 8-9 ft. below ground surface. Groundwater flow direction in this shallow, non-potable aquifer is east-southeast towards the Las Vegas Wash. The water table in the shallow aquifer within the Las Vegas Valley typically varies from surface to 50 ft. below ground surface. The shallow groundwater results predominantly from lawn irrigation (i.e., over-irrigation) and stormwater runoff events.

Flow: The design pumping and treatment capacity of this groundwater remediation system is specified as 15 gallons per minute (gpm), which is equivalent to 0.0216 million gallons per day (MGD). Since the system has not yet commenced discharging, actual discharge flow rates are not available.

Rationale for Permit Requirements: Monitoring requirements for the parameters specified in Table 1 (see below) have been established to ensure that the treatment system is discharging within the Division's allowable limits for petroleum hydrocarbon remediation sites, which discharge to surface waters of the State (Las Vegas Wash).

Proposed Effluent Limitations and Special Conditions:

Table 1: Discharge Limitations (Outfall 001)

PARAMETER	DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS	
		Measurement Frequency	Sample Type
Discharge Flow	15 gpm (0.0216 MGD)	Continuous	Flow Meter
Benzene, µg/L ¹	5	Weekly/Monthly ²	Discrete
Ethylbenzene, µg/L ¹	100	Weekly/Monthly ²	Discrete
Toluene, µg/L ¹	100	Weekly/Monthly ²	Discrete
Xylenes (Total), µg/L ¹	200	Weekly/Monthly ²	Discrete
MTBE, µg/L ¹	20	Weekly/Monthly ²	Discrete
Total Petroleum Hydrocarbons (TPH), mg/L ³	1.0	Weekly/Monthly ²	Discrete
Total Dissolved Solids, mg/L	Monitor & Report	Quarterly	Discrete
Total Inorganic Nitrogen as N, mg/L	20	Quarterly	Discrete
Total Phosphorus as P, mg/L	Monitor & Report	Quarterly	Discrete
pH, S.U.	Within 6.5 – 9.0	Quarterly	Discrete

1. EPA Method 8260 (report all parameters).
2. Sampling frequency is weekly for first month of operation, then monthly thereafter.
3. EPA 8015 Modified.

Schedule of Compliance: Within ninety (90) days of the permit issuance date, the Permittee shall submit a copy of the Operations & Maintenance (O&M) Manual for the groundwater remediation system, prepared in accordance with the Division's WTS-2 guidance: *Minimum Information Required for an Operations and Maintenance Manual*. This document shall be wet stamped and signed by a Nevada Professional Engineer (P.E.). This document shall be sent to the attention of:

Mr. Nadir Sous, Supervisor
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
1771 E. Flamingo Rd.
Suite 121-A
Las Vegas, NV 89119

Procedures for Public Comment: The Notice of the Division's intent to issue an NPDES permit authorizing the facility to discharge treated groundwater to the Las Vegas Wash, subject to the conditions contained within the permit is being sent to the **Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **May 27, 2003 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination: The Division has made the tentative determination to issue the proposed NPDES permit to the facility for a period of five (5) years.

Prepared by: Mark A. Kaminski, P.E.
Staff Engineer III
Bureau of Water Pollution Control

Date: April 22, 2003

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